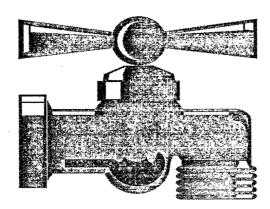
Office of Water 4301

EPA 822-R-94-001 May 1994

SEPA DRINKING WATER REGULATIONS AND HEALTH ADVISORIES





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DRINKING WATER REGULATIONS AND HEALTH ADVISORIES

by

Office of Water
U.S. Environmental Protection Agency
Washington, D.C.
202-260-7571

SAFE DRINKING WATER HOTLINE 1-800-426-4791 Monday thru Friday, 8:30 AM to 5:00 PM EST

May 1994

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LEGEND

Abbreviations column descriptions are:

- MCLG Maximum Contaminant Level Goal. A non-enforceable concentration of a drinking water contaminant that is protective of adverse human health effects and allows an adequate margin of safety.
- MCL Maximum Contaminant Level. Maximum permissible level of a contaminant in water which is delivered to any user of a public water system.
- Reference Dose. An estimate of a daily exposure to the human population that is likely to be without appreciable risk of deleterious effects over a lifetime.
- <u>DWEL</u> Drinking Water Equivalent Level. A lifetime exposure concentration protective of adverse, non-cancer health effects, that assumes all of the exposure to a contaminant is from a drinking water source.
- (*) The codes for the Status Reg and Status HA columns are as follows:

 $\underline{\mathsf{F}}$ - final

 \underline{D} - draft

<u>L</u> - listed for regulation

 $\frac{P}{T}$ - proposed tentative

Other codes found in the table include the following:

NA - not applicable

PS - performance standard 0.5 NTU - 1.0 NTU

TT - treatment technique

No more than 5% of the samples per month may be positive. For systems collecting fewer than 40 samples/month, no more than 1 sample per month may be positive.

*** - guidance

 Large discrepancies between Lifetime and Longer-term HA values may occur because of the Agency's conservative policies, especially with regard to carcinogenicity, relative source contribution, and less than lifetime exposures in chronic toxicity testing. These factors can result in a cumulative UF (uncertainty factor) of 10 to 1000 when calculating a Lifetime HA. The scheme for categorizing chemicals according to their carcinogenic potential is as follows:

Group A: Human carcinogen

Sufficient evidence in epidemiologic studies to support causal association between exposure and cancer

Group B: Probable human carcinogen

Limited evidence in epidemiologic studies (Group B1) and/or sufficient evidence from animal studies (Group B2)

Group C: Possible human carcinogen

Limited evidence from animal studies and inadequate or no data in humans

Group D: Not classifiable

Inadequate or no human and animal evidence of carcinogenicity

Group E: No evidence of carcinogenicity for humans

No evidence of carcinogenicity in at least two adequate animal tests in different species *or* in adequate epidemiologic and animal studies

		Standar	ds					Health	Advisories				
Chemicals	Status	MCLG	MCL		1	0-kg Child	i			70-kg Adı	ult		Cancer
	Reg.	(mg/l)	(mg/l)	Status HA	One-day (mg/l)	Ten-day (mg/l)	Longer- term (mg/l)	Longer- term (mg/l)	RfD (mg/kg/ day)	DWEL (mg/l)	Lifetime (mg/l)	mg/l at 10 ⁻⁴ Cancer Risk	Group
ORGANICS													
Acenaphthene	-	. •	-		-	•	-	-	0.06	•	-	-	_
Acifluorfen	Т	zero	-	F	2	2	0.1	0.4	0.013	0.4	•	0.1	B2
Acrylamide	F	zero	TT	F	0.2	0.2	0.01	0.04	0.001	0.04	•	0.001	B2
Acrylonitrile	T	zero	•	D	_	_	•		-	-	_	0.006	B1*
Adipate (diethylhexyl)	F	0.4	0.4	-	20	20	20	60	0.6	20	0.4	3	С
Alachlor	F	zero	0.002	F	0.1	0.1	•	-	0.01	0.4	-	0.04	B2
Aldicarb	D	0.007	0.007	D	-		*	_	0.001	0.035	0.007	<u>=</u>	D
Aldicarb sulfone	D	0.007	0.007	D	_	•	•	-	0.001	0.035	0.007		D
Aldicarb sulfoxide	D	0.007	0.007	D	***************************************	= 101.0000000000000000000000000000000000	-	-	0.001	0.035	0.007	-	D
Aldrin	-	•		D	0.0003	0.0003	0.0003	***************************************	0.00003	0.001	•	0.0002	B2
Ametryn	-	-	• ************************************	F	9	9	0.9	3	0.009	0.3	0.06	-	D
Ammonium sulfamate		-		F	20	20	20	80	0.28	8	2	•	D
Anthracene (PAH)	-	•	-	-		-	-	-	0.3	-	. .	-	D
Atrazine	F	0.003	0.003	F	0.1	0.1	0.05	0.2	0.035	0.2*	0.003*	-	С
Baygon	-	-	-	F	0.04	0.04	0.04	0.1	0.004	0.1	0.003	.	С
Bentazon	Т	0.02	•	F	0.3	0.3	0.3	0.9	0.0025	0.09	0.02	•	D
Benz(a)anthracene (PAH)	P	zero	0.0001	-	•	-	-	-	-	*	-	-	В2
Benzene	F	zero	0.005	F	0.2	0.2	•	-	-	_	•	0.1	Α
Benzo(a)pyrene (PAH)	F	zero	0.0002	-	-	-	-	•	-	-	•	_	B2*
Benzo(b)fluoranthene (PAH)	P	zero	0.0002	-			-	-	-	_		-	В2
Benzo(g,h,i)perylene (PAH)	-		•	-	-	**		-	-	······································	-	-	D
Benzo(k)fluoranthene (PAH)	P	zero	0.0002	-	-	-	•	_	_	-	-	-	B2
bis-2-Chloroisopropyl ether	-	*	-	F	4	4	4	13	0.04	1	0.3	- 1	D
Bromacil	L	•	•	F	5	5	3	9	0.13	5	0.09	-	C
Bromobenzene	L	- -	-	D	**************************************	# .www.ee e.de.deedgeg	- -	-	-	-	-	<u>.</u>	•

^{*} Under review.

NOTE: Anthracene and Benzo(g,h,i)perylene - not proposed in Phase V.

NOTE: Changes from the last version are noted in Italic and Bold Face print.

May 1994

	to a finish	Standa	ards	er Padur Peri				Healti	n Advisories	5			
Chemicals		11010			Tara da mara da Tara da manasa Manasa da manasa	10-kg Child				70-kg Ad	iult		Cancer
	Status Reg.	MCLG (mg/l)	MCL (mg/l)	Status HA	One-day (mg/l)	Ten-day (mg/l)	Longer- term (mg/l)	Longer- term (mg/l)	RfD (mg/kg/ day)	DWEL (mg/l)	Lifetime (mg/l)	mg/i at 10 ⁻⁴ Cancer Risk	Group
Bromochloroacetonitrile	L	*	-	D	-	-	-	-	-	-	-	-	-
Bromochloromethane	-			F	50	1:	1	5	0.013	0.5	0.09	-	-
Bromodichloromethane (THM)	Т	zero	0.1*/0.08+	D	7	7	4	13	0.02	0.7	-	0.06	B2
Bromoform (THM)	Т	zero	0.1*/0.08+	D	5	2	2	6	0.02	0.7	-	0.4	B2
Bromomethane	Т	-	-	F	0.1	0.1	0.1	0.5	0.001	0.04	0.01	*	D
Butyl benzyl phthalate (PAE) Butylate	P -	zero -	0.1 -	- F	2	- 2	1	4	0.2 0.05	6 2	- 0.35	-	C D
Butylbenzene:n-	-		÷	D					-	_	-	_	-
Butylbenzene sec-	-	-		D	-	# · · · · · · · · · · · · · · · · · · ·	-	-		************	-	-	-
Butylbenzene tert- Carbaryl	-	-	-	D F	1	1	1	1	0.1	- 4	- 0.7	-	D
Carbofuran	F	0.04	0.04	F	0.05	0.05	0.05	0.2	0.005	0.2	0.04		E
Carbon tetrachloride	F	zero	0.005	F	4	0.2	0.07	0.3	0.0007	0.03	-	0.03	B2
Carboxin			-	F	1	1	1	4	0.1	4	0.7		D
Chloral hydrate	Т	0.04	0.06++	D	7	1.4	0.2	0.6	0.0002	0.07	0.06	-	С
Chloramben	-		į.	F	3	- 3	0.2	0.5	0.015	0.5	0.1		D
Chlordane	F	zero	0.002	F	0.06	0.06	•	-	0.00006	0.002	• '	0.003	B2
Chlorodibromomethane (THM)	×T	0.06	0.1*/0.08*	D	7	7	2	8	0.02	0.7	0.06		C
Chloroethane	L	-	-	D.	-	•	-	-	-	-	-	-	-
Chloroform (THM)	Т	zero	0.1*/0.08*	D	4	4	0.1	0.4	0.01	0.4	_	0.6	B2
Chloromethane	L	-	-	F	9	0.4	0.4	1	0.004	0.1	0.003	-	С
Chlorophenol: (2-)	-			D	0.05	0.05	0.05	0.2	0.005	0.2	0.04		D
p-Chlorophenyl methyl								\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					
sulfide/sulfone/sulfoxide	-	enter	en Leikhal unussassas	# #. 200000-00 20000	- Medical entre and	100 10000000000000000000000000000000000		-	— Silen izilebaka wak	• *******************************	. • 8008000000000000000000000000000000000	- 	D
Chloropicrin	L	0.00±3 2007									•		
Chlorothalonil	-	# 3455-20		F	0.2	0.2	0.2	0.5	0.015	0.5	-	0.15	B2
Chlorotoluene o-	L.			F	2	2	2	7	0.02	0.7	0.1	<u>.</u>	D
Chlorotoluene p-	L	- 12 tr	e suestimation	F	2	2	2	7	0.02	0.7 0.1	0.1	• 4()()	D
Chlorpyrifos			0.0000	F	0.03	0.03	0.03	0.1	0.003	U.1	0.02		D
Chrysene (PAH)	P	zero	0.0002		0.1	0.1	0.02	0.07		- 0.07	-		B2 C
Cyanazine	Т	0.001		D	U.I	U.1	0.02	U.U/	0.002	0.07	0.001		100

^{*} Current MCL * Total for all THMs combined cannot exceed the 0.08 level. ** Total for all haloacetic acids cannot exceed 0.06 level.

^{**} A HA will not be developed due to insufficient data; a "Database Deficiency Report has been published.

		Standard	ls					Health	Advisories				
Chemicals					1	0-kg Child	ı			70-kg Adı	ilt		Cancer
	Status Reg.	MCLG (mg/l)	MCL (mg/l)	Status HA	One-day (mg/l)	Ten-day (mg/l)	Longer- term (mg/l)	Longer- term (mg/l)	RfD (mg/kg/ day)	DWEL (mg/l)	Lifetime (mg/l)	mg/l at 10 ⁴ Cancer Risk	Group
Cyanogen chloride	Ĺ	-	-	-	-	-	-	-	-	-	-	-	-
Cymene p-	-	-		D	-		1.5	-	-	-	•	-	-
2,4-D	F	0.07	0.07	F	1	0.3	0.1	0.4	0.01	0.4	0.07	-	D
DCPA (Dacthal)	L	-	•	F	**********	80	- YAM & COMMINS	20	0.5	20	4		D
Dalapon	F	0.2	0.2	F	3	3	0.3	0.9	0.026	0.9	0.2	-	D
Di[2-ethylhexyl]adipate Diazinon	F -	0.4 -	0.4	F	20 0.02	20 0.02	20 0.005	60 0.02	0.6 0.00009	20 0.003	0.4 0.0006	3 -	C E
Dibenz(a,h)anthracene (PAH)	Р	zero	0.0003		•			-	-	•	•	-	B2
Dibromoacetonitrile	L	-	•	D	2	2	2	8	0.02	0.8	0.02	-	С
Dibromochloropropane (DBCP)	F	zero	0.0002	F	0.2	0.05		-	•			0.003	B2
Dibromomethane	L	-	•	-	-	-	-	-	-		•	-	D
Dibutyl phthalate (PAE)	-	-	-	-	-	-		-	0.1	4		-	D
Dicamba	L		-	F	0.3	0.3	0.3	1	0.03	1	0.2	-	D
Dichloroacetaldehyde	L		•	D	•		•	-	-	-			
Dichloroacetic acid	T	zero	0.06++	D [*]	1	1	1	4	0.004	0.1		- *	B2
Dichloroacetonitrile	L	-		D	1	1	0.8	3	0.008	0.3	0.006	-	С
Dichlorobenzene o-	F	0.6	0.6	F	9	9		30	0.09	3	0.6	-	D
Dichlorobenzene m- *	F	0.6	0.6	F	9	9	9	30	0.09	3	0.6	-	D
Dichlorobenzene p-	F	0.075	0.075	F	10	10		40	0.1	4	0.075		С
Dichlorodifluoromethane:	L			F	40	40	9	30	0.2	5	1		D
Dichloroethane (1,1-)	L	•	-	D	_	<u>-</u>	•	- " .	·	-	-	-	-
Dichloroethane (1,2-)	F	zero	0.005	F	0.7	0.7	0.7	2.6			•	0.04	B2
Dichloroethylene (1,1-)	F	0.007	0.007	F	2	1	1	4	0.009	0.4	0.007	- .	C
Dichloroethylene (cis-1,2-)	·F	0.07	0.07	F	4	3	3	11	0.01	0.4	0.07	-	D
Dichloroethylene (trans-1,2-)	F	0.1	0.1	F	20	2	2	6	0.02	0.6	0.1	•	D
Dichloromethane	F	zero	0.005	F	10	2		•	0.06	2	÷	0.5	B2
Dichlorophenol (2,4-)	-	-	-	D	0.03	0.03	0.03	0.1	0.003	0.1	0.02		D
Dichloropropane (1,1-)	-	-		D	-			-	_		-		
Dichloropropane (1,2-)	F	zero	0.005	F	-	0.09	-	-	**************************************	- 200000	- -	0.05	B2 **
Dichloropropane (1,3-)	L	-		D				•	-		-	-	

^{*} The values for m-dichlorobenzene are based on data for o-dichlorobenzene.

⁺⁺ Total for all haloacetic acids cannot exceed 0.06 level.

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								Health	Advisories				
Chemicals					1	0-kg Child		i eleipi Leigheige		70-kg Ad	ult		Cancer
	Status Reg.	MCLG (mg/l)	MCL (mg/l)	Status HA	One-day (mg/l)	Ten-day (mg/l)	Longer- term (mg/l)	Longer- term (mg/l)	RfD (mg/kg/ day)	DWEL (mg/l)	Lifetime (mg/l)	mg/l at 10 ⁻¹ Cancer Risk	Group
Dichloropropane (2,2-)	L	-	-	D	-	•	-	-	-	-	-	-	-
Dichloropropene (1,1-)	: L		. <u>-</u>	D	<u>-</u>	•		•	•		•	2	
Dichloropropene (1,3-)	Ť	zero	-	F	0.03	0.03	0.03	0.09	0.0003	0.01	-	0.02	B2
Dieldrin		•	•	F	0.0005	0.0005	0.0005	0.002	0.00005	0.002	-	0.0002	B2
Diethyl phthalate (PAE)	-		•	D	•	•	-	-	0.8	30	5	-	D
Diethylene glycol dinitrate Diethylhexyl phthalate (PAE)	F	zero	0.006	** D	_	_		_	- 0.02	- 0.7	_	0.3	B2*
Diisopropyl methylphosphonate	r 1::2:2000::000	2010	0.000	F	8	8	8	30	0.02	3	0.6	0.5	D
Dimethrin				F	10	10	10	40	0.3	10	2	-	D
Dimethyl methylphosphonate	XX 800 33.90	-	- ::::::::::::::::::::::::::::::::::::	F	2	2	2	6	0.2	7	0.1	0.7	C .
Dimethyl phthalate (PAE)	-	-	-	-	-	-	-	-	-	-0000000000000000000000000000000000000	-	-	D
1,3-Dinitrobenzene				F	0.04	0.04	0.04	0.14	0.0001	0.005	0.001		D
Dinitrotoluene (2,4-)	L	-	-	F	0.50	0.50	0.30	1	0.002	0.1	-	-	-
Dinitrotoluene: (2,6-)	L			F	0.40	0.40	0.40	1	0.001	0.04	•		
tg 2,6 & 2,4 dinitrotoluene ***	-		-	-	-	-	-	-	•	•	- .	0.005	B2
Dinoseb	F	0.007	0.007	F	0.3	0.3	0.01	0.04	0.001	0.04	0.007	-	D
Dioxane p-		-	-	F	4	0.4	-		•	-	-	0.7	B2
Diphenamid		-		F	0.3	0.3	0.3	1	0.03	1	0.2		D
Diphenylamine	-	-	-	F	1	1	0.3	1	0.03	1	0.2		D
Diquat	F	0,02	0.02	,	-	-		-	0.0022	0.08	0.02		D
Disulfoton	-	•	•	F	0.01	0.01	0.003	0.009	0.00004	0.001	0.0003	-	E
Dithiane (1,4-)				F	0.4	0.4	0,4	1	0.01	0.4	0.08		D
Diuron	-	•	•	F	1	1	0.3	0.9	0.002	0.07	0.01	-	D
Endothall	F	0.1	0.1	* ;F	0.8	0.8	0.2	0.2	0.02	0.7	0.1	_	D
Endrin	F	0.002	0.002	F	0.02	0.02	0.003	0.01	0.0003	0.01	0.002	=	D
Epichlorohydrin	F	zero	11	F	0.1	0.1	0.07	0.07	0.002	0.07	-	0.4	B2
Ethylbenzene	F	0.7	0.7	F	30	3	1	3	0.1	3	0.7	-	D
Ethylene dibromide (EDB)	F	zero	0.00005	F	0.008	0.008		-	-	•	-	0.00004	B2
Ethylene glycol	-	= 	**************************************	F	20	6	6	20	2	40	7	<u> </u>	D
ETÚ	L			F	0.3	0.3	0.1	0.4	0.00008	0.003	-	0.03	B2
Fenamiphos	- 500		energy arrays (for the first 1 - 14)	F	0.009	0.009	0.005	0.02	0.00025	0.009	0.002	——————————————————————————————————————	D

^{*} Under review. ** A HA will not be developed due to insufficient data; a "Database Deficiency Report" has been published.

^{***} tg = technical grade

		Standard	ls					Health	Advisories				
Chemicals			***		1	0-kg Child	i			70-kg Adu	ılt		Canc
	Status Reg.	MCLG (mg/l)	MCL (mg/l)	Status HA	One-day (mg/l)	Ten-day (mg/l)	Longer- term (mg/l)	Longer- term (mg/l)	RfD (mg/kg/ day)	DWEL (mg/l)	Lifetime (mg/l)	mg/l at 10 ⁻⁴ Cancer Risk	Grou
Fluometron	-	-	-	F	2	2	2	5	0.013	0.4	0.09		D
Fluorene (PAH)	-	-	•	-	-		<u>.</u>		0.04	-	- **** <u>*</u> *********	-	D
luorotrichloromethane	L	-	-	F	7	7	3	10	0.3	10	2	-	D
og Oil	-		-	D	-	-		-		<u>-</u>	•	-	-
Fonofos	-		•	F	0.02	0.02	0.02	0.07	0.002	0.07	0.01	-	D
Formaldehyde	-	*	***************************************	D	10	5	5	20	0.15	5	1	-	B1
Gasoline, unleaded (benzene)				D		-		•		4	0.005	-	E
Slyphosate	F	0.7	0.7	F	20	20	1	1	0.1 0.0005	4 0.02	0.7	0.0008	р с В2
leptachlor	F	zero	0.0004	F	0.01	0.01	0.005	0.005		***************************************	-		B2
leptachlor epoxide	F	zero	0.0002		0.01	-	0.0001	0.0001	1E-5	0.0004	• *************	0.0004	В2 В2
lexachlorobenzene	F	zero	0.001	F	0.05	0.05	0.05	0.2	0.0008	0.03		0.002	
lexachlorobutadiene	T	0.001	-	F	0.3	0.3	0.1	0.4	0.002	0.07 0.2	0.001	-	C
lexachlorocyclopentadiene	F	0.05	0.05	ت ا		_		<u> </u>	0.007		0.004	-	
lexachloroethane	L	•	-	F	5	5	0.1	0.5	0.001	0.04	0.001	- ;	C D
lexane (n-)		<u>-</u>	•	F	10	4	4	10		•	~ ^	-	200000000
lexazinone	·	er og det er er bleverkkelde til	• 200007-201-201-00201-201-201-201-	F	3	3	3	9	0.033	1	0.2 0.4	· -	D
IMX				Ę	5	5	5	20	0.05	2	0.4	-	. B2
ndeno(1,2,3,-c,d)pyrene (PAH)	P	zero	0.0004	D		-	- 15	- 15	0.2	- 7	- 0.1	4	C
sophorone	L	•		Ę	15	15		garagaggaan ay assang	0.2 0.1		0.7	4	D
sopropyl methylphosphonate	-	• 875-0450-050-050-050-05	- ************************************	D	30	30	30	100	U. I	4.U ***********	0.7	-	טון
sopropylbenzene :			^ ^ ^ ^	, D	4	1	0.03	~ 1	0.0003	0.01	0.0002	-	С
indane	F	0.0002	0.0002	F NGX7# 1000	1	 		0.1	0.0003	0.01	0.0002	-	D
Malathion			•	Ē	0.2	0.2	0.2	0.8	0.02	∪.8 20	4		D
/laleic hydrazide	- - 	en sub en steastes	• 80379989498	F	10 0.1	10	5 0.1	20 0.4	0.0015	0.05	0.01	-	E
/ICPA			•	F.	0.1	0.1 0.3	0.1	0.4	0.0015	0.05	0.01		D
/lethomyl	L	- 	•	l F Some on	1			0.3	0.025	0.9	0.2	-	٥
Methoxychlor	F	0.04	0.04	F	0.05	0.05	0.05	200000000000000000000000000000000000000	0.005	U.Z	U:U4	_	÷
Methyl ethyl ketone	- -	<u>-</u> Boskalakowa	· •	F F ∞	-	- -	- 0.02	0.4	-	0.009	0.002	-	D
lethyl parathion				j t	0.3	0.3	0.03	0.1	0.00025	บ.บบฮ	U.UUZ		U

^{*} Under review.

May 1994

		Standard	ds					Health	Advisories				1
Chemicals	Status	MCLG	MCL	6		0-kg Child				70-kg Ad	ult		Cancer
	Reg.	(mg/l)	(mg/l)	Status HA	One-day (mg/l)	Ten-day (mg/l)	Longer- term (mg/l)	Longer- term (mg/l)	RfD (mg/kg/ day)	DWEL (mg/l)	Lifetime (mg/l)	mg/l at 10 ⁻⁴ Cancer Risk	Group
Methyl tert butyl ether	L	-	-	D	3	3	0.5	2	0.005	0.2	0.04	a∏usangari man, and tilibi ma∏a •	D
Metolachlor	L			F	2	2	2	5	0.15	5	0.1	-	C
Metribuzin	L	-	-	F	5	5	0.3	0.9	0.025	0.9	0.2	-	D
Monochloroacetic acid	L			-D		•		-	· ·	-		-	-
Monochlorobenzene	F	0.1	0.1	F	2	2	2	7	0.02	0.7	0.1	-	D
Naphthalene Nitrocellulose (non-toxic)	-	<u>-</u>	-	F	0.5 -	0.5 -	0.4 -	1 -	0.004 -	0.1 -	0.02 -	-	D -
Nitroguanidine		-	-	F	10	10	10	40	0.1	4	0.7	-	D.
Nitrophenol p-	-	-	•	F	0.8	0.8	0.8	3	0.008	0.3	0.06	-	D
Oxamyl (Vydate)	F	0.2	0.2	F	0.2	0.2	0.2	0.9	0.025	0.9	0.2		E
Paraquat	-	-	-	F	0.1	0.1	0.05	0.2	0.0045	0.2	0.03	· -	E
Pentachloroethane	-	-	-	D	-		-	-	-	-	-	-	
Pentachlorophenol	F	zero	0.001	F	1	0.3	0.3	1	0.03	1	-	0.03	B2
Phenanthrene (PAH)	-	•	•		-	•	-	-		-		-	
Phenol	-	-	-	D	6	6		20	0.6	20	4	-	D
Picloram	F	0.5	0:5	F	20	20	0.7	2	0.07	2	0.5		D
Polychlorinated biphenyls (PCBs)	F	zero	0.0005	Р	-	-	-	-	-	- '	-	0.0005	B2
Prometon	L			∌#F	0.2	0.2	0.2	0.5	0.015*	0.5*	0.1*	•	D
Pronamide	-		·	. F	0.8	0.8	0.8	3	0.075	3	0.05	-	С
Propachlor	•	-		F	0.5	0.5	0.1	0.5	0.013	0.5	0.09		D
Propazine	-	-	-	F	1	1	0.5	2	0.02	0.7	0.01	-	С
Propham	-	-		8//F/	5	5	5	20	0.02	0.6	0.1	-	D
Propylbenzene n-	*	= :000007.2007045777777	= 2000.0000.000 ******* ***	D	e o oot:	-	waxaa aa	-		-		-	-
Pyrene (PAH)				1907 W	-	-	-	-	0.03	-	1.752	-	D
RDX	. -	-	• ************************************	. F	0.1	0.1	0.1	0.4	0.003	0.1	0.002	0.03	С
Simazine -	F	0.004	0.004	F	0.07	0.07	0.07	0.07	0.005	0.2	0.004	-	С
Styrene	F	0.1	0.1	F 800	20	2	2	7	0.2	7	0.1	-	С
2,4,5-T	L	-	-	F	0.8	0.8	0.8	1	0.01	0.35	0.07	-	D
2,3,7,8-TCDD (Dioxin)	F	zero	3E-08	F	1E-06	1E-07	1E-08	4E-08	1E-09	4E-08	-	2E-08	B2

^{*} Under review. NOTE: Phenanthrene — not proposed.

May 1994

		Standard	İS					Health	Advisories				
Chemicals					1	0-kg Child	ı			70-kg Adu	ilt		Cancer
	Status Reg.	MICLG (mg/l)	MCL (mg/l)	Status HA	One-day (mg/l)	Ten-day (mg/l)	Longer- term (mg/l)	Longer- term (mg/l)	RfD (mg/kg/ day)	DWEL (mg/l)	Lifetime (mg/l)	mg/l at 10 ⁴ Cancer Risk	Group
Tebuthiuron	-	-	-	F	3	3	0.7	2	0.07	2	0.5	-	D
Terbacil	-			F	0.3	0.3	0.3	0.9	0.013	0.4	0.09		Ε
Terbufos	-	-	-	F	0.005	0.005	0.001	0.005	0.00013	0.005	0.0009	-	D
Tetrachloroethane (1,1,1,2-)	L		•	F	2	2	0.9	3	0.03	1	0.07	0.1	C
Tetrachloroethane (1,1,2,2-)	L	-		D	-	-	•	-		-	•	-	-
Tetrachloroethylene Tetranitromethane	F -	zero -	0.005 -	F **	2 -	2 -	1	5 -	0.01 -	0.5 -	- -	0.07 -	-
Toluene	F	1	1	F	20	2	2	7	0.2	7	1	-	D
Toxaphene	F	zero	0.003	F	0.5	0.04	-	-	0.1	0.0035		0.003	B2
2,4,5-TP	F	0.05	0.05	F	0.2	0.2	0.07	0.3	0.0075	0.3	0.05		D
1,1,2-Trichloro-1,2,2- trifluoroethane	-	<u>-</u>	-	-	-	-	-	-	-	•	-		-
Trichloroacetic acid	T	0.3	0.06++	D	4	4	4	13	0.1	4.0	0.3	_	C
Trichloroacetonitrile	L	-	-	D	0.05	0.05	-	-	-	-	-	- 2	-
Trichlorobenzene (1,2,4-)	∥ F	0.07	0.07	F	0.1	0.1	0.1	0.5	0.01	0.4	0.07		D
Trichlorobenzene (1,3,5-)	-		-	F	0.6	0.6	0.6	2	0.006	0.2	0.04	-	D
Trichloroethane (1,1,1-)	F	0.2	0.2	F.	100	40	40	100	0.035	1	0.2		D
Trichloroethane (1,1,2-)	F	0.003	0.005	F	0.6	0.4	0.4	1	0.004	0.1	0.003	-	С
Trichloroethanol (2,2,2-)	L	_	-	F	-	-	•	•	•		<u>-</u>	-	-
Trichloroethylene	F	zero .	0.005	F	•	-	•	*	-	0.3	**************************************	0.3	B2
Trichlorophenol (2,4,6-)	L	-	-	D	-	-	-	•	-	-	2	0.3	B2
Trichloropropane (1,1,1-)	-	-	-	D	-	······································	-	-	•	**	•	-	-
Trichloropropane (1,2,3-)	L			F	0.6	0.6	0.6	2	0.006	0.2	0.04	-	B2
Trifluralin	L	-	-	F	0.08	0.08	0.08	0.3	0.0075	0.3	0.005	0.5	С
Trimethylbenzene (1,2,4-)		-	-	D	•	-	•	•	•	•	•		*
Trimethylbenzene (1,3,5-)	-	. •	-	D	- ,		· =		- -			-	-
Trinitroglycerol	-		-	. F	0.005	0.005	0.005	0.005		-	0.005	÷	
Trinitrotoluene	-	•	-	F	0.02	0.02	0.02	0.02	0.0005	0.02	0.002	0.1	С
Vinyl chloride	F	zero	0.002	# F	3	3	0.01	0.05	_	<u>.</u>		0.0015	A
Xylenes	F	10	10	F	40	40	40	100	2	60	10	-	D

^{**} A HA will not be developed due to insufficient data; a "Database Deficiency Report" has been published.

++ Total for all haloacetic acids cannot exceed 0.06 level.

May 1994

		Standard	ds.					Health	Advisories				
Chemicals						0-kg Child				70-kg Adı	ılt		Cancer
	Status Reg.	MCLG (mg/l)	MCL (mg/l)	Status HA	One-day (mg/l)	Ten-day (mg/l)	Longer- term (mg/l)	Longer- term (mg/l)	RfD (mg/kg/ day)	DWEL (mg/l)	Lifetime (mg/l)	mg/l at 10 ⁻⁴ Cancer Risk	Group
INORGANICS													
Aluminum	L	-	*	D	-	-		-	_		_	-	-
Ammonia		420.54		D	•						30	-	D
Antimony	F	0.006	0.006	F	0.01	0.01	0.01 .	0.015	0.0004	0.01	0.003	-	D
Arsenic		•	0,05	D	•	•			•	-	-	0.002	Α
Asbestos (fibers/l > 10µm	F	7 MFL	7 MFL	-	-	-	-	-	•	•	-	700 MFL	Α
length)	erse vraart	r coe water down acceptable	0000 <u>0</u> 0000 0000000000	0.000.000.000.000.00	4686600.00000000000000000000000000000000	000000000000000000000000000000000000000	00000 x 1,00000xx0000	807 - 2 8 - 2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-		&0.000.00.000.000.000.000.000.000	books <u>a</u> ankoonstaannoon	*******	
Barium	F F	2 0.004	2 0.004	F	30	30	4	-	0.07	2	2		D
Beryllium	F Basasanan	0.004	0.004	D D	30 4	0.9	4 0.9	20 3	0.005 0.09	0.2 3	- 0.6	0.0008	B2
Boron	S		0.01		4	v.a	0,9	ು	0.09	3	V.0		D
Bromate	L F	<i>zero</i> 0.005	0.07 0.005	- F	0.04	- 0.04	0.005	0.02	0.0005	- 0.02	0.005	-	-
Cadmium	Г Т <i>4</i> *	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-0.005 4	D D	1			201-201-201-201-201-201-201-201-201-201-	0.0005	0.02 3.3	3/4***		D
Chloramine	4		4		1	1	 	1	U. 1	ა.ა	3/4	-	- -
Chlorate	T	4		D	-	-		-	A A0	-	-	<u>-</u>	200000000000000000000000000000000000000
Chlorine	V1 1 1422	4 0.3	4 0.8	D	- ************************************	-	- 88992000001.18	S JiSHTONS	0.08 <i>0.01</i>	- 0.35	- 0.3	-	D D
Chlorine dioxide Chlorite		0.08	0.6 1	D D	-	_			0.01 0.003	0.35 0.1	0.08	-	D
	e saer	0.03	0.1	1	1	-	- 0.2	- -0.8	0.005	0.7	0.03	-	D
Chromium (total)	F	1.3	TT**	F	1	I	U.Z	U.O.	U.UU5	U,Z	U.I	-	ם
Copper	r P	0.2	0.2	F	0.2	- 0.2	0.2	0.8	0.022	- 0.8	- 0.2	-	D D
Cyanide Fluoride*		0.2 4	- 0.2 4	J. S. F.	U.Z	- U.Z	U.Z	o.	0.022	U.6	U.Z	-	ט
Hypochlorite	F 2 Var	4 4¹	→		-	•	_ #124725557.2	 Majaran 1994	0.12	-	-	-	•
Hypochlorous acid		4 [†]	_		_	•	#5:300 } •		_	_	•	_	
Lead (at tap)	Sba ≓ c -	zero	- TT**	-		· -			-	-	-	-	B2
Manganese	1997 (S.)	-	_	D	-	_	-		0.14/	_	_	-	UZ.
ivianganose				-			•		0.005	-	. –		-
Mercury (inorganic)	F	0.002	0.002	F D	•	•		0.002	0.0003	0.01	0.002	•	D
Molybdenum	Ĺ	•	- : - :	D	- · · · · · · · · · · · · · · · · · · ·	0.08	0.01	0.05	0.005	0.2	0.04	-	D
Nickel	(F)	0.1	0.1	F	1	1	0.5	1,7	0.02	0.6	0.1	-	D
Nitrate (as N)	F	10	10	F	1	0*	æ vekkonerczonorom kausa - 1986	1 *	1.6	•	-	· -	#

^{*} Under review. ** Copper — action level 1.3 mg/L; Lead - action level 0.015 mg/L. *** Measured as free chlorine. † Regulated as chlorine.

		Standard	ls					Health	Advisories				
Chemicals	Status	MCLG	MCL		1	0-kg Child				70-kg Ad	ult		Cancer
	Reg.	(mg/l)	(mg/l)	Status HA	One-day (mg/l)	Ten-day (mg/l)	Longer- term (mg/l)	Longer- term (mg/l)	RfD (mg/kg/ day)	DWEL (mg/l)	Lifetime (mg/l)	mg/l at 10 ⁻⁴ Cancer Risk	Group
Nitrite (as N)	F	1	1	F	-	1*	-	-	0.16*	-	•	-	*
Nitrate + Nitrite (both as N)	000000000	•	10	F		•	•			-	-	-	•
Selenium	F	0.05	0.05	-	-	-	-	-	0.005	-	•	•	-
Silver		•	•	D	0.2	0.2	0.2	0.2	0.005	0.2	0.1		D
Sodium	-	-	•	D		-	-	-	. •	20***	-	-	-
Strontium				D	25	25	25	90	0.6	90	17	-	D
Sulfate	P	**	**	-	-	-	- ************************************	-	-	-	-	•	
Thallium Vanadium		0.0005	0.002	F	0.007	0.007	0.007	0.02	0.00007	0.002	0.0004		
White phosphorous	L	• 315.0000000000	<u>-</u>	D F	-	-	- ************************************		0.00002	- 0.0005	0.0001		D D
Zinc	 	_	_	F	6	6	3	12	0.00002	11			
Zinc chloride (measured as Zinc)		_	-	F	6	6		12	0.3	11	2 2	-	D
-				****				1.4	0.5		4	-	
RADIONUCLIDES												÷	
Beta particle and photon													
activity (formerly													
man-made radionuclides) Gross alpha particle activity		zero	4 mrem	•	•	•	•		•	-	•	4 mrem/y	A
Radium 226	r No .	zero zero	15 pCi/L 20 pCi/L	******	<u>-</u> 5 : 1900 (1900)	-	- 80803829400 - K	i . Sa. Krya k	•	-	-	15 pCi/L	A
Radium 228	P	zero	20 pCi/L			_			_	-	•	20 pCi/L	A
Radon			300 pCi/L	-		-			-	-	-	20 pCi/L 150 pCi/L	A A
Uranium	P	zero	20 μg/L	-	- 6.3 ***********************************	-	-	と発達して lie lie <mark>・</mark>	0.003	-	_	**************************************	A
	<u> </u>			<u> </u>							-		

^{*} Under review.

^{**} Deferred.

^{***} Guidance.

Secondary Maximum Contaminant Levels

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Chemicals	Status	SMCLs (mg/L)
Aluminum	F	0.05 to 0.2
Chloride	F	250
Color	F	15 color units
Copper	F	1.0
Corrosivity	F	non-corrosive
Fluoride*	F	2.0
Foaming agents	F	0.5
Iron	F	0.3
Manganese	F	0.05
Odor	F	3 threshold odor numbers
pH	F	6.5 — 8.5
Silver	F	0.1
Sulfate	F	250
Total dissolved solids (TDS)	F	500
Zinc	F	5

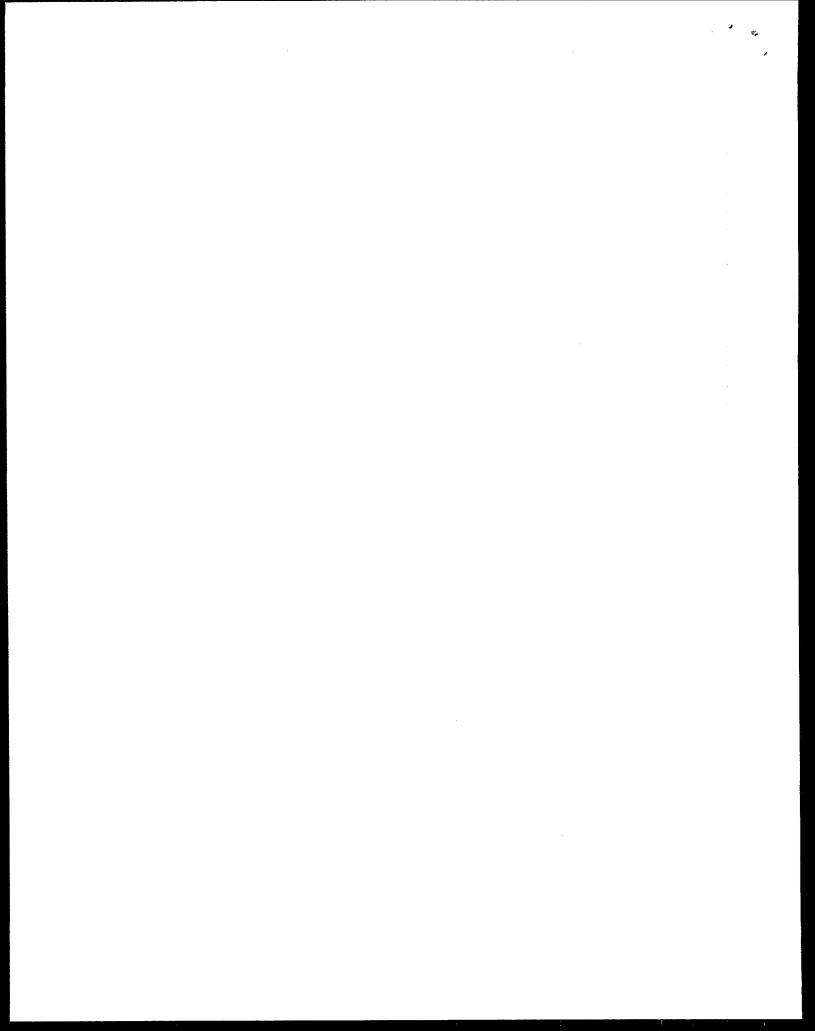
Status Codes: P-proposed, F-final

^{*} Under review.

	Status	MCLG	MCL
Cryptosporidium	L	-	-
Giardia lamblia	F	zero	П
Legionella	F ^β	zero	π
Standard Plate Count	F ^β	NA	TT
Total Coliforms (after 12/31/90)	F	zero	**
Turbidity (after 12/31/90)	F	NA	PS
Viruses	F ^β	zero	TT

Key: PS, TT, F, defined as previously stated.

^β Final for systems using surface water; also being considered for regulation under groundwater disinfection rule.



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